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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,083	01/02/2004	Hongsun Hua	BSPAP002C	1323	
7:	590 07/08/2005		EXAMINER		
Peter B. Martine			CIRIC, LJILJANA V		
Martine & Peni Suite 170	illa, LLP	ART UNIT	PAPER NUMBER		
710 Lakeway Drive			3753		
Sunnyvale, CA 94085			DATE MAILED: 07/08/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

				<u> </u>
	Applica	ation No.	Applicant(s)	
	10/751	,083	HUA, HONGSUN	i
Office Action Summary	Examin	er /	Art Unit	
	Ljiljana	(Lil) V. Ciric	3753	
The MAILING DATE of this com Period for Reply	munication appears on t	the cover sheet with the	correspondence addre	ess
A SHORTENED STATUTORY PERIC THE MAILING DATE OF THIS COMM - Extensions of time may be available under the prov after SIX (6) MONTHS from the mailing date of this - If the period for reply specified above, the maxim - Failure to reply within the set or extended period for Any reply received by the Office later than three mo earned patent term adjustment. See 37 CFR 1.704	MUNICATION. isions of 37 CFR 1.136(a). In no communication. irrly (30) days, a reply within the saturtory period will apply and reply will, by statute, cause the a onths after the mailing date of this	event, however, may a reply be ti statutory minimum of thirty (30) da t will expire SIX (6) MONTHS fron application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this comr ED (35 U.S.C. § 133).	nunication.
Status				:
1) Responsive to communication(s	s) filed on 12 April 2005		:	:
2a)⊠ This action is FINAL .	2b) ☐ This action is		•	
3) Since this application is in condi	•		osecution as to the m	nerits is
closed in accordance with the p				
Glosed in accordance with the p	radioo anadi Exparto (guayio, 1000 c.b. 11, 1		•
Disposition of Claims				
4)⊠ Claim(s) <u>1-12</u> is/are pending in t	the application.		:	
4a) Of the above claim(s) none is/are withdrawn from consideration.				:
5) Claim(s) is/are allowed.	:			
6)⊠ Claim(s) <u>1-12</u> is/are rejected.				
7) Claim(s) is/are objected t			:	
8) Claim(s) are subject to re	estriction and/or election	requirement.		
Application Papers				
9) ☐ The specification is objected to b	y the Examiner.			:
10)⊠ The drawing(s) filed on 12 April:	<u>2005</u> is/are: a)⊠ accep	oted or b) objected to	by the Examiner.	:
Applicant may not request that any	objection to the drawing(s	s) be held in abeyance. Se	ee 37 CFR 1.85(a).	
Replacement drawing sheet(s) inclu	uding the correction is requ	uired if the drawing(s) is ol	ojected to. See 37 CFR	1.121(d).
11)☐ The oath or declaration is object	ed to by the Examiner.	Note the attached Office	e Action or form PTO	-152.
Delouite condon 25 H C C 5 440			: :	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a cl		under 35 U.S.C. § 119(a	a)-(d);or (f).	:
a)⊠ All b)□ Some * c)□ None			:	:
1. Certified copies of the price				:
2.⊠ Certified copies of the pri	-			<u>:</u>
3. Copies of the certified cop			rea in this National St	age
application from the Intern	•			
* See the attached detailed Office	action for a list of the ce	ertified copies not receiv	eu.	•
·				:
Attachment(s)		 -	VDTO 440	:
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Revi 	ew (PTO-948)	4) Interview Summar Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO-14		5) Notice of Informal	Patent Application (PTO-1	52)
Paper No(s)/Mail Date		6)	· .	

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DETAILED ACTION

Response to Amendment

- 1. This Office action is in response to the reply filed on April 12, 2005.
- 2. Claims 1 through 12 as originally filed remain in the application.

Response to Arguments

3. Applicant's arguments filed on April 12, 2005 have been fully considered but they are not persuasive.

As a preface to the examiner's traversal of the applicant's arguments, applicant is respectfully reminded that claims in a pending application should be given their broadest reasonable interpretation. *In* re Pearson, 181 USPQ 641 (CCPA 1974).

Applicant is also respectfully reminded that claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Danly*, 263 F.2d 844, 847, 120 USPQ 528, 531 (CCPA 1959). Also, [A]pparatus claims cover what a device *is*, not what a device *does*. (Emphasis in original). *Hewlett-Packard Co. v. Bausch & Lomb Inc.*, 909 F.2d 1464, 1469 15 USPQ2d 1525, 1528 (Fed. Cir. 1990).

Finally, as specified in the MPEP, language that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation. The following are examples of language that may raise a question as to the limiting effect of the language in a claim:

- (A) statements of intended use or field of use,
- (B) "adapted to" or "adapted for" clauses,
- (C) "wherein" clauses, or
- (D) "whereby" clauses.

This list of examples is not intended to be exhaustive.

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Thus, in response to applicant's argument that the Yarbrough et al. reference fails, for example, to disclose, teach or suggest "that when the room is being heated, the temperature of water in the water heater decreases", the examiner hereby notes that the abovementioned limitations are part of a wherein clause in the rejected apparatus clause, and especially given that the structure of the prior art generally meets the claimed structure of the instant inventive apparatus as described at length in both the previous Office action and repeated below, various functional limitations which are part of the "wherein" clauses in the claims of the instant invention are considered to be optional and thus are not considered to be limiting.

In response to applicant's argument that the Yarbrough et al. references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., heating the room by decreasing the temperature of the water; connecting one set of heat exchangers to the switch valve at a time) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The apparatus claims of the instant invention fail to recite any structure which patentably defines over the prior art.

Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

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Priority

4. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/038,034, filed on January 2, 2002.

Drawings

5. The drawings were received on April 12, 2005. These drawings are approved.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1 through 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yarbrough et al. (U.S. Patent 5,802,864).

Yarbrough et al. discloses a multi-functional thermal installation essentially as claimed, including, for example: a compressor 20 having an inlet and an outlet, and disposed in an enclosed water heater 10, which at least in some modes operates to heat the water in the pool or "well" as broadly interpreted as required [see column 4, lines 17-25; column 6, lines 43-44; column 7, lines 24-26]; a switch valve (i.e., reversing valve) 32 coupled to the outlet of the compressor 20; an evaporator 80 comprising a group of heat exchangers (i.e., each pass of the evaporator as shown in Figure 1 of the reference being broadly readable as required on one of the heat exchangers in a "group" of heat exchangers as recited in the claims of the instant application), this group of heat exchangers and fan 83 associated therewith being disposed in an air handler 82 (and also in the room housing the air handler); another group of heat exchangers (i.e., each pass of the plurality of coils of refrigerant conduit 44 being readable on one of the heat exchangers in this group of heat exchangers as recited in the claims of the instant application); another group of heat exchangers (i.e., each pass of the plurality of coils of refrigerant conduit 44 being

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readable on one of the heat exchangers in this another group of heat exchangers as recited in the claims of the instant application) disposed in a water heater or refrigerant-to-water heat exchanger 40 or in the "water heater" 10, the enclosed water heater 10 or the refrigerant-to-water heat exchanger 40 having a water inlet 42a and a hot water outlet 42b; a condenser 60 comprising yet another group of heat exchangers (i.e., each pass of the condenser or condensing coil 60 being readable on one of the group of heat exchangers as recited in the claims of the instant application); a pool which reads broadly on the underground well as recited in the claims of the instant application, the pool or "well" being connected to the water inlet 42a of the water heater or refrigerant-to-water exchanger 40 via a pump 46; and an expansion valve 70 coupled directly or indirectly to the various groups of heat exchangers.

Thus Yarbrough et al., while disclosing at least one fan 83 associated with a group of heat exchangers, does not to specifically disclose a plurality of such fans. Nevertheless, duplicating parts for a multiplied effect is generally not inventive unless there are unexpected results associated therewith. See In re. Harza, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

It would therefore have been obvious to one skilled in the art at the time of invention to modify the thermal installation of Yarbrough et al. by including more than one fans 83 in order to, for example, keep the size of each fan (and thus the noise level associated therewith) smaller or in order to provide a back-up fan and thus protect against total operational failure in the event one fan motor fails.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action

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is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ljiljana (Lil) V. Ciric whose telephone number is 571-272-4909. The examiner can normally be reached on Mondays through Fridays from 10:00 a.m. to 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene, can be reached at 571-272-4930.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ljiljana (Lil) V. Ciric Primary Examiner Art Unit 3753